·				-T
L Number	Hits	\	DB	Time stamp
<u> </u>	589	(flat near package) and (leadframe (lead	USPAT;	2003/03/23 09:13
I	001	adj frame))	EPO; JPO	1 0001 (05 (00 11 05
i ¯	201	((flat near package) and (leadframe (lead	USPAT;	2001/05/20 11:05
!		adj frame))) and opening	EPO; JPO	2001/05/16 14-00
-	500		USPAT;	2001/05/16 14:08
1	!	adj frame))) and (wire wiring)	EPO; JPO	1 0007 (05 (00 11 03
-	318	(((flat near package) and (leadframe (lead	USPA'T;	2001/05/20 11:07
		adj frame))) and (wire wiring)) not (((flat	EPO; JPO	
		near package) and (leadframe (lead adj	i	
	٠-	frame))) and opening)	11027.	0001 (05 (10 00-10
-	5		USPAT;	2001/05/18 08:19
	į	adj oxide) (anodic adj oxidation) (chemical	EPO; JPO	
	201	adj oxidation)) ((flat near1 package) and (leadframe (lead	HCDAM.	2001/05/20 11:09
	201		USPAT;	2001/03/20 11:09
ļ	100	adj frame))) and opening	EPO; JPO	2003/03/22 12:51
_	182	(((flat nearl package) and (leadframe (lead	USPAT;	2003/03/22 12:51
ļ	j 500	adj frame))) and opening) and (wire wiring)	EPO; JPO	2001/09/07 08:05
_	300		USPAT;	2001/09/07 08:03
'	231	adj frame))and (wire wiring)	EPO; JPO	2001/05/20 11-12
i -	231	((flat near1 package) and (leadframe (lead	USPAT;	2001/05/20 11:12
1		adj frame))and (wire wiring)) and (plated plating)	EPO; JPO	1
l _	! 522	1 3'	USPAT;	2002/01/28 15:59
! -	522 <u> </u>	, , , , , , , , , , , , , , , , , , , ,		2002/01/20 13:39
1 _	94 أ	adj frame))and (wire wiring)	EPO; JPO	2001/09/07 08:23
1 -	94.		USPAT;	2001/09/07 08:23
1	2	adj frame))and (wire wiring)) and ring	EPO; JPO	2001/00/07 09+35
_	3	((flat near1 package) and (leadframe (lead	USPAT;	2001/09/07 08:25
:		<pre>adj frame))and (wire wiring)) and ((power ground grounding) near1 ring)</pre>	US-PGPUB; EPO; JPO;	
		ground grounding, near ring,	DERWENT	1
_	0 !	((leadframe (lead adj frame)) with (tress adj	USPAT;	2001/09/07 08:50
i		reducing) with (power ground grounding)) and	EPO; JPO	2001/03/07 08:30
		(wire wiring)	EFO, OLO	i !
_	5	"5776800"	USPAT;	2001/09/07 08:50
j	,	3770000	EPO; JPO	2001703707 00:30
1_ '	556	(flat nearl packag\$3) and (leadframe (lead	USPAT;	2002/01/28 16:00
1 1		adj frame))and (wire wiring)	EPO; JPO	2002, 01, 20
-	381 ו		USPAT;	2002/01/28 16:02
' i		adj frame)) and (wire wiring)) and ((seal\$3	EPO; JPO	
		near resin) encapsulat\$3)	1	,
'- 1	378	(((flat nearl packag\$3) and (leadframe	USPAT;	2002/01/28 16:04
i i		(lead adj frame)) and (wire wiring)) and	EPO; JPO	1
! į		((seal\$3 near resin) encapsulat\$3)) and		1
	:	(chip die ic (integrated adj	1	1
!		circuit) (semiconductor nearl (device	[ [	1
		package)))	: i	
ļ- l	377	(((flat nearl packag\$3) and (leadframe	USPAT;	2002/01/28 16:16
j i		(lead adj frame))and (wire wiring)) and	EPO; JPO	1
: !		((seal\$3 near resin) encapsulat\$3)) and		!
1	!	(chip die (integrated adj	'	1
! !	i	circuit) (semiconductor nearl (device	İ	į į
i	ļ	package)))	ļ	i.
<u>'</u> - '	364	((((flat nearl packag\$3) and (leadframe	USPAT;	2002/01/28 16:16
1	l	(lead adj frame))and (wire wiring)) and	EPO; JPO	
į	1	((seal\$3 near resin) encapsulat\$3)) and	1	<u> </u>
i	ļ	(chip die (integrated adj		
1	i	circuit) (semiconductor nearl (device		į į
		package)))) and surface	ļ	!
ı !	115	((((flat nearl packag\$3) and (leadframe	USPAT;	2002/01/28 16:18
i Ì	ļ	(lead adj frame))and (wire wiring)) and	EPO; JPO	1
i i	,	((seal\$3 near resin) encapsulat\$3)) and	!	!
. 1	İ	(chip die (integrated adj	:	l
!		circuit) (semiconductor nearl (device	İ	
•	i	<pre>package)))) and surface) and ((die adj pad)</pre>	;	
i		(mount\$3 adj (area pad)))		

		<del></del>		: 500 5 a vol. 40 a : 500 5 500
i -	191	(((((flat nearl packag\$3) and (leadframe (lead adj frame)) and (wire wiring)) and	USPAT; EPO; JPO	2002/01/28 16:20
1	!	((seal\$3 near resin) encapsulat\$3)) and	EFO, 010	
	1	(chip die (integrated adj	:	1
İ	İ	circuit) (semiconductor near1 (device		
: 	:	<pre>package)))) and surface) and (lead with (stepped step recess protrusion))</pre>		i '
! -	64		USPAT;	2002/01/28 16:20
ļ	İ	(lead adj frame))and (wire wiring)) and	EPO; JPO	
1		((seal\$3 near resin) encapsulat\$3)) and		
i	ļ	(chip die (integrated adj   circuit)(semiconductor nearl (device		
1	İ	package)))) and surface) and ((die adj pad)	1	
	1	(mount\$3 adj (area pad)))) and (lead with		ļ .
i _	12	(stepped step recess protrusion)) AZUMA-KOSUKE AZUMA-KOUSUKE	USPAT;	2002/03/27 08:51
!		HEOLEY KODOKE HEOLET KOOOOKE	US-PGPUB;	1 2002/03/2: 00:01
j	l I		EPO; JPO;	!
·   _	i o	20010009301.URPN.	DERWENT	1 2002/03/27 08:51
_		"6071755"	USPAT;	2002/03/27 08:52
j			US-PGPUB;	i
i			EPO; JPO; DERWENT	!
! _	3	"6247229"	USPAT;	2002/03/27 08:52
			US-PGPUB;	
İ			EPO; JPO;   DERWENT	
_	2	"6208021"	USPAT;	2002/03/27 08:52
		] 	US-PGPUB;	
i	İ		EPO; JPO; DERWENT	i
-	14	"6071755" "6247229" "6208021"	USPAT;	2002/03/27 08:52
1		!	US-PGPUB;	
!	1		EPO; JPO; DERWENT	1
ļ <b>-</b>	3	"6084310"	USPAT;	2002/03/27 08:52
·			US-PGPUB;	
!	:		EPO; JPO; DERWENT	!
] -	3	"6163069"	USPAT;	2002/03/27 08:52
!	1		US-PGPUB;	
	1		EPO; JPO; DERWENT	· 
; -	6	"6198171"	USPAT;	2002/03/27 08:52
	i		US-PGPUB; EPO; JPO;	!
1	İ		DERWENT	
! _	4	"6238952"	USPAT;	2002/03/27 08:53
			US-PGPUB; EPO; JPO;	i
l	!		DERWENT	
! -	<u> </u>	"6215179"	USPAT;	2002/03/27 08:53
1	!		US-PGPUB; EPO; JPO;	
,	i .		DERWENT	i :
; -	1.9	"6084310" "6163069" "6198171" "6238952"	USPAT;	2002/03/27 08:53
!	1	"6215179"	US-PGPUB; EPO: JPO:	İ
;			DERWENT	
: -	7	("6084310" "6163069" "6198171" "6238952"	USPAT;	2002/03/27 08:54
	:	"6215179") and (bump ball)	US-PGPUB; EPO; JPO;	
!	!		DERWENT	
-	33	"6071755" "6247229" "6208021") ("6084310"	USPAT;	2002/03/27 10:18
!	i i	"6163069" "6198171" "6238952" "6215179" 	US-PGPUB; EPO; JPO;	
:	1		DERWENT	

		<del>_</del>		
1 -	21	("6071755" "6247229" "6208021") (("6084310"	USPAT;	2002/03/27 09:42
i	İ	"6163069" "6198171" "6238952" "6215179")	US-PGPUB;	
ļ	1	and (bump ball))	EPO; JPO;	
1	İ		DERWEN'I	!
-	1	6215179.URPN.	USPAT	2002/03/27 09:00
<sub>1</sub> -		("6031292"   "6215179").PN.	USPAT	2002/03/27 09:01
i		6031292.URPN.	USPAT	2002/03/27 09:01
-	2	("5371407"   "5625222").PN.	USPAT	2002/03/27 09:02
· <b>-</b>	j 0		USPAT	2002/03/27 09:02
-	1	! 6208021.URPN.	USPAT	2002/03/27 09:03
; <b>-</b>	! 9		USPAT	2002/03/27 09:03
	İ	"5583375"   "5767571"   "5770888"		
1	1	"5801439"   "5821615"   "5849608").PN.	[	
j -	3	("4604644"   "4974057"   "5283446").PN.	USPAT	2002/03/27 09:04
1 -		5444301.URPN.	USPAT	2002/03/27 09:05
` -		("5863805"   "5886405"   "5917241").PN.	USPAT	2002/03/27 09:10
-	1		USPAT	2002/03/27 09:10
_		6071755.URPN.	USPAT	2002/03/27 09:11
-	10	("5285352"   "5313365"   "5355283"	USPAT	2002/03/27 09:12
i	!	"5371404"   "5394009"   "5450283"   "F6461107"   "F654007"   "F6570606"		
!		' "5461197"   "5554887"   "5578525"     "5619070").PN.	:	
i =	. 71	5450283.URPN.	ticDAM.	1 2002/03/27 09:14
! [	_	6081997.URPN.	USPAT	2002/03/27 09:14
1 =	. 9		USPAT	2002/03/27 09:20
		"5218759"   "5420752"   "5450283"	USFAI	2002/03/2/ 09:20
1	ļ	"5474958"   "5692296"   "5732465").PN.		
[_	j 71	5450283.URPN.	USPAT	2002/03/27 09:21
. ~	11		USPAT	2002/03/27 09:21
		1"4987100"   "5107325"   "5177669"	001711	2002/03/2/ 03:21
	j	"5222014"   "5239198"   "5249101"	1	
ĺ	İ	"5291062"   "5311402").PN.		
· _	! 5	5981312.URPN.	USPAT	2002/03/27 09:25
l -	5	5981312.URPN.	USPAT	2002/03/27 09:25
-	18	<sup>!</sup> ("4143456"   "4915607"   "5019673"	USPAT	2002/03/27 09:25
1	l	"5120678"   "5169056"   "5203076"	ļ	
ļ	!	<sup>!</sup> "5218234"   "5239198"   "5248710"	ì	
l.	Ĺ	"5273938"   "5292688"   "5302850"	İ	
	!	<sup> </sup> "5371404"   "5385869"   "5420752"	:	'
1		"5450283"   "5623006"   "5663106").PN.	1	
-		5817545.URPN.	USPAT	2002/03/27 09:28
 1	12	("5082615"   "5203076"   "5218234"	USPAT	2002/03/27 09:30
Į		"5244838"   "5275546"   "5381599"		!
i	į	"5385869"   "5450283"   "5512232"	i	! :
		"5570272"   "5589714"   "5609889").PN.	100000	2002/02/27 10:15
į <del>-</del>	12	(("6071755" "6247229" "6208021") ("6084310"	USPAT;	2002/03/27 10:15
		"6163069" "6198171" "6238952" "6215179"))	US-PGPUB;	ļ
i	l	not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"	EPO; JPO;	
			DERWENT	
1 ~	ا ج	"6215179") and (bump ball))) ("5900676"   "6187614"   "6198171"	USPAT	2002/03/27 09:45
į	, ,	"6201292"   "6208023").PN.	OSPAT	2002/03/2/03.43
! _	10	("3781596"   "5157475"   "5302849"	USPAT	2002/03/27 09:49
ļ	. 10	"5309429"   "5373190"   "5521429"	002711	1002,00,2,00,40
1	[	"5554887"   "5581444"   "5659200"		i i
}		"5849608").PN.	}	1
1 -	! \jmath [	5373190.URPN.	USPAT	2002/03/27 09:50
! _		("3922712"   "3959874"   "3972062"	USPAT	2002/03/27 09:53
1		"4839713"   "5019673").PN.	, 002	1
_	84	3781596.URPN.	i USPAT	2002/03/27 09:54
1 -	;	3781596.URPN.	USPAT	2002/03/27 09:54
_	1.2	5900676.URPN.	USPAT	2002/03/27 09:57
_	1	6069408.URPN.	USPAT	2002/03/27 10:02
! -	' 7 ·	("5298460"   "5623123"   "5656550"	USPAT	2002/03/27 10:02
:		"5856212"   "5893724"   "5900676"	Į	
i		"5930603").PN.	•	4
i _	13 (	5656550.URPN.	USPAT	2002/03/27 10:04
1 -	i 5	5830800.URPN.	USPAT	2002/03/27 10:07
1 _	3 :	("5830800"   "6077766"   "6232661").PN.	i USPAT	2002/03/27 10:09
i -		("5620928"   "5656550").PN.	USPAT	2002/03/27 10:09
<u> </u>	<u> </u>	5847458.URPN.	USPAT	2002/03/27 10:10
. —			· <del>-</del>	

Ĺ	·	5047450 NDDV	Tucham	1 2002 (02 (27 10-10
-	5	5847458.URPN.	USPAT	2002/03/27 10:10
· -	5	! ("4697943"   "5463593"   "5471088"     "5497032"   "5656550").PN.	USPAT	2002/03/27 10:11
; -	402288	semiconductor nearl (device package	USPAT;	2002/03/27 10:17
	i	packaging)	US-PGPUB;	
1			EPO; JPO;	i :
	1		DERWENT	
; -	33	(semiconductor nearl (device package	USPAT;	12002/03/27 10:22
ļ	i	packaging)) and (lead adj (pot post))	US-PGPUB;	
i	ļ		EPO; JPO;	}
	1		DERWENT	l j
; -	494	(semiconductor nearl (device package	USPAT;	2002/03/27 10:25
Į	i	packaging)) and ((leadframe (lead adj	US-PGPUB;	2002, 00, 20
i	ļ	frame)) with (chip die) with (bump ball))	EPO; JPO;	
	1	Zzame, , when totale ale, when totale,	DERWENT	
1 -	216	((semiconductor nearl (device package	USPAT;	2002/03/27 10:28
ļ		packaging)) and ((leadframe (lead adj	US-PGPUB;	2002/03/2/ 10:20
İ		frame)) with (chip die) with (bump ball)))	EPO; JPO;	
		and ((sealing adj (resin material))	DERWENT	
i	!	encapsulant encapsulating encapsulated)	DEKWENT	
1_	263	i	USPAT;	2002/03/27 10:30
i	205	"6163069" "6198171" "6238952" "6215179"))	US-PGPUB;	2.002/03/2/ 10.30
	Í	5450283.URPN, 5444301.URPN, 5450283.URPN.	EPO; JPO;	
i		(("4143456"   "4915607"   "5019673"	DERWENT	į
	•	"5120678"   "5169056"   "5203076"	DERWENT	!
i		"5218234"   "5239198"   "5248710"		1
	1	"5273938"   "5292688"   "5302850"		
:	}	3273936	!	1
	!		1	!
:	1	"5450283"   "5623006"   "5663106").PN.)		
	ļ	5817545.URPN. (("5082615"   "5203076"		!
:	1	"5218234"   "5244838"   "5275546"	Ì	
1		"5381599"   "5385869"   "5450283"     "5512232"   "5570272"   "5589714"		
1			i	
	į	"5609889").PN.) ((("6071755" "6247229"	ļ	į
	ı	("6208021") ("6084310" "6163069" "6198171" "613069" "6198171" "619817" "619817" "619817" "619817" "619817" "619817" "619817" "619817" "619817" "619817" "619817" "619817" "61981	1	!
!		"6238952" "6215179")) not (("6071755"	i	
1	ļ	"6247229" "6208021") (("6084310" "6163069"		<u> </u>
	İ	"6198171" "6238952" "6215179") and (bump		1
•	ļ	ball)))) (("3781596"   "5157475"		<u> </u>
İ	1	"5302849"   "5309429"   "5373190"	1	i
!		"5521429"   "5554887"   "5581444"	1	: [
1		"5659200"   "5849608").PN.) 3781596.URPN.	1	<u> </u>
		(("5298460"   "5623123"   "5656550"	•	
		"5856212"   "5893724"   "5900676"		
i	<b>L</b>	"5930603").PN.) 5656550.URPN.	<u>!                                      </u>	i

		1/// And the second of the sec	l HODAM.		. 7
- i	. 211	(((semiconductor nearl (device package packaging)) and ((leadframe (lead adj	USPAT;	2002/03/27 10:3.	 
1	ļ	frame)) with (chip die) with (bump ball)))	EPO; JPO;	1	- !
1		and ((sealing adj (resin material))	DERWENT		j
i	!	encapsulant encapsulating encapsulated))			1
i		not ((("6071755" "6247229" "6208021")		!	;
į.	,	("6084310" "6163069" "6198171" "6238952"	,		į
•		[ "6215179")) 5450283.URPN. 5444301.URPN. [ 5450283.URPN. (("4143456"   "4915607"		1	i
ļ	1	7 3430263.0RPN. (( 4143436	1		- !
	:	"5203076"   "5218234"   "5239198"		i	
1	1	"5248710"   "5273938"   "5292688"	İ	!	i
1	1	"5302850"   "5371404"   "5385869"	!		ļ
į	1	"5420752"   "5450283"   "5623006"			İ
į		"5663106").PN.) 5817545.URPN. (("5082615"		ļ.	İ
:		"5203076"   "5218234"   "5244838"     "5275546"   "5381599"   "5385869"		i	
!	ļ	"5450283"   "5512232"   "5570272"	i	ļ	i i
i	i	"5589714"   "5609889").PN.) ((("6071755"		İ	ļ
!		"6247229" "6208021") ("6084310" "6163069"			į
	İ	"6198171" "6238952" "6215179")) not		:	į
•		(("6071755" "6247229" "6208021")		ļ	i
	İ	(("6084310" "6163069" "6198171" "6238952"		i i	!
1		"6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"	· ·	1	Ì
ļ		"5373190"   "5521429"   "5554887"			İ
i	!	"5581444"   "5659200"   "5849608").PN.)		Ì	!
į		3781596.URPN. (("5298460"   "5623123"		1	İ
1	•	"5656550"   "5856212"   "5893724"	i .		ļ
;	0.5	"5900676"   "5930603").PN.) 5656550.URPN.)	HCDAM.		,
_	. 95	((((semiconductor nearl (device package packaging)) and ((leadframe (lead adj	USPAT; US-PGPUB;	2002/03/2/ 10:43	,
ì		frame)) with (chip die) with (bump ball)))	EPO; JPO;		
İ	i	and ((sealing adj (resin material))	DERWENT	İ	Ĺ
ļ		encapsulant encapsulating encapsulated))	İ	:	
:	1	not ((("6071755" "6247229" "6208021")	1	İ	į
!		("6084310" "6163069" "6198171" "6238952"		!	•
i	i	! "6215179")) 5450283.URPN. 5444301.URPN.   5450283.URPN. (("4143456"   "4915607"	!	İ	
:		"5019673"   "5120678"   "5169056"	I.		!
ì	i	"5203076"   "5218234"   "5239198"		ì	ļ
•	!	<sup>1</sup> "5248710"   "5273938"   "5292688"	Í	1	
İ	ı	"5302850"   "5371404"   "5385869"	ļ	į	j
•	ı	"5420752"   "5450283"   "5623006"     "5663106").PN.) 5817545.URPN. (("5082615"	1		,
1	!	"5203076"   "5218234"   "5244838"			-
	:				i
		_ "5275546"   "5381599"   "5385869"			- 1
İ	i	"5450283"   "5512232"   "5570272"	İ	İ	1
i	ļ	"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"	İ		; 
	ļ 	"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"	 		!
i		"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not	<u> </u> 		! ! !
i i I	ļ 	"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not  (("6071755" "6247229" "6208021")	 	  - 	     
	ļ 	"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not	 	  - 	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 	 	"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not  (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"	 	  -   	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 	 	"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952" ["6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"	 		; ;
 		"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"  ["6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.)			! ! ! !
 		"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952" [6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "55521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
		"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not  (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"  "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "55309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5656550"   "5856212"   "5893724"			
		"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952" [6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "55521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"			
		"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"  "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not  (("6071755"   6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"  "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5656550"   "5856212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.))			

Title (((Semiconductor near) (device package package) packaging)) and ((lacadinna (lacadin) 108-2000) property (and (acaling and (recas material)) package package not (acaling and (recas material)) package package not (acaling and (recas material)) package package not (acaling and (recas material)) package package not (acaling acali					
packaging ) and ((loadframe (lead ad)   US-PGFUB;   Frame)) with (chip die) with (bump boil))   and (scaling ad) (resin material)    encapsulation (chip die) with (bump boil))   encapsulation (chip die) with (bump boil)   encapsulation (chip die)   encapsulation	<u></u>	116	((((semiconductor nearl (device package	USPAT;	2002/03/27 10:44
and (seealing adj (resin material)) encapsulant encapsulated) not (((*6071755" *6271222" *6208021")  (*6081310" *6182069" *618311" *6238322"  ***Seealing ****Seealing ***Seealing ***Seealing ***Seealing ****Seealing ***Seealing ***See	,		packaging)) and ((leadframe (lead adj	US-PGPUB;	i
encapsulant encapsulating encapsulated) not ((16071755" (261225" "620821") ("6084310" "6163069" %199171" %238952" %218179") \$508203.0078. \$44301.0078.  "519672" "120678" "19169056" "5219672" "120678" "19169056" "5219672" "120678" "19169056" "5219672" "120678" "19169056" "5219672" "12073938" "5229688" "3218710" "3273938" "5229688" "3218710" "3273938" "5229688" "3203076" "3218224" "3289596" "3203076" "3218224" "3284938" "3203076" "3218224" "3244938" "3203076" "3218224" "3244938" "3203076" "3218224" "3244938" "3519714" "5609889", NN.) (("6071755" "3509214" "5609889"), NN.) (("6071755" "3509214" "5509289"), NN.) (("6071755" "3509214" "3509289"), NN.) (("6071755" "3509214" "3509289"), NN.) (("6071755" "3509214" "3509289"), NN.) (("6071755" "3509289"), NN.) (("6071755" "351222" "35092813" "351292"), NN.) (("6081310" "6163069" "6198171" "6238952" "3713190" "3512429" "3554887" "3513199" "3512429" "3554887" "3513199" "3512429" "3554887" "3513199" "351242" "3554887" "3513199" "3512429" "3554887" "3513199" "3512429" "3554887" "3554887" "3512429" "3554887" "3554	Į				1
not \((\((\(^{\(\)}\) \) \((\)\) \((\)\) \((\)\) \((\)\) \(\)\) \((\				DERWENT	į į
("6084310" "6163069" "6198171" "6238952"   "621519")) 5450233.URNN. 5444301.URNN.   5450283.URNN. ("4184366"   "4915607"   "51016673"   "5126078"   "5169056"   "5203076"   "5212334"   "5239188"   "5243710"   "8212334"   "5233188"   "5243710"   "8212332"   "5292688   "52203076"   "5212324"   "538866"   "52203076"   "5218234"   "538866"   "52203076"   "5218234"   "538866"   "52203076"   "52182324"   "538866"   "5255466"   "5381599"   "538866"   "5450283"   "5512232"   "550272"   "5450283"   "5512222"   "550272"   "5463108"   "5609889"   N.) (("6071755"   "6247229" "6228021") ("6084310" "6163669"   "6198171" "6289852" "62181799") not					
"6215179") 5450283.URPN. 5444301.URPN.     5450283.URPN. ("4143456"   "4915007"     "5019673"   "5120678"   "5169056"     "5019673"   "5120678"   "5218938"     "5243710"   "5218234"   "529398"     "5243710"   "5218234"   "52395688"     "52205025   "5371404"   "5385869"     "5420702   "5450283"   "552006"     "56306"   "53106"   "53185869"     "5420702   "5450283"   "5570272"     "5575546"   "531232"   "5570272"     "5589714"   "5609889".N.) (("6071755"     "647222"   "6208021"   ("6084310"   "6163069"     "(6084310"   "6163069"   "6198171"   "6238952"     "61517475"   "5302489"   "55002429"     "61517475"   "5502429"   "55002429"     "55157475"   "5512429"   "5504289"     "55157475"   "5521429"   "55042897   "6218199")     "5516444   "5504280"   "55946881,Ph.)     "5586550"   "8930603", Ph.) 566550.URPN.)     not ((("6071755"   "893063", Ph.) 566550.URPN.)     not ((("6071755"   6247229"   6238952"     "6218179")   3450283.URPN. ("6198174   (4288952"     "6218179")   5450283.URPN. 544400.URPN.     5462083.URPN. ("4143456"   "4318952"     "6218179")   5450283.URPN. 544400.URPN.     5463083.URPN. ("4143658"   "4318969"     "5503076"   "5218234"   "5239528"     "5503076"   "5218234"   "5239528"     "6218179")   5450283.URPN. 544400.URPN.     5463083.URPN. ("4143658"   "4318007"       "5663166", Ph.) 5417745.URPN. ("5082615"   "5203076"   "5218234"   "5239688"   "5239688"   "5230868"   "5330880"   "5318234"   "5239688"   "5239688"   "5230868"   "5318238"   "5239688"   "5230868"   "5318238"   "5239688"   "5230868"   "5318238"   "5239688"   "5230858"   "5318238"   "5239688"   "5230858"   "5248389"   "5330880"   "5318238"   "5239688"   "5203076"   "5218238"   "5239688"   "5239688"   "5230068"   "5566166", Ph.) 3817545.URPN. (("5082615"   "5566160", Ph.) 3817545.URPN. (("5082615"   "5566160", Ph.) 3817545.URPN. (("5082615"   "5566160", Ph.) 3817545.URPN. (("5082615"   "5566160", Ph.) 3818588"   "5300860", Ph.) 38185860"   "5300066"   "55662500"   "55662500"   "55662500"   "55662500"   "55662500"   "55662500"   "55662	ļ			ì	
5430283.URPN. ("4143456"   "4915607"     "5019673"   "5120678"   "5169056"     "5203076"   "9218334"   "5291988"     "5302850"   "9371364"   "5293688"     "5302850"   "9371364"   "5283869"     "5203050"   "371404"   "5383869"     "5203076"   "9218234"   "5243688"     "5203076"   "9218234"   "5243688"     "5203076"   "9218234"   "5243688"     "5203076"   "9315991"   "53838569"     "5450283"   "5512222"   "5570272"     "5450283"   "5512222"   "5570272"     "6647229" "6209021") ("6084310" "6163068"     "61911" "6239952" "6215179") not	; ;				
"\$50,03076"   "\$1,05078"   "\$1,69056"    "\$20,03076"   "\$2,020338"   "\$2,92688"    "\$30,02650"   "\$371404"   "\$389686"    "\$4,0752"   "\$54,02031"   "\$52,0068"    "\$4,0752"   "\$54,02031"   "\$52,0068"    "\$4,0752"   "\$54,02031"   "\$52,0068"    "\$4,0752"   "\$54,02031"   "\$52,0068"    "\$4,0316"   "\$1,03164"   "\$1,0316869"    "\$2,0346"   "\$1,03164"   "\$1,0316869"    "\$54,0233"   "\$51,0212"   "\$55,0272"    "\$58,9714"   "\$60,9828"   "\$57,0272"    "\$58,9714"   "\$60,9828"   "\$57,0272"    "\$58,9714"   "\$60,9828"   "\$57,0272"    "\$58,171"   "\$62,9852"   "\$62,15179"   "\$1,0069"    "\$1,006,171"   "\$2,006,171"   "\$1,03069"    "\$1,015,171"   "\$2,006,171"   "\$2,03952"    "\$1,015,171"   "\$2,006,171"   "\$2,03952"    "\$1,015,171"   "\$2,006,171"   "\$2,03952"    "\$1,015,171"   "\$2,006,171"   "\$2,03952"    "\$1,015,171"   "\$5,014,271"   "\$5,004,29"      "\$1,015,171"   "\$5,014,29"   "\$5,004,29"      "\$1,015,171"   "\$5,014,29"   "\$5,004,29"      "\$1,015,171"   "\$5,014,29"   "\$5,004,29"      "\$1,015,171"   "\$5,014,29"   "\$5,004,29"      "\$1,015,171"   "\$5,014,29"   "\$5,004,29"      "\$1,015,171"   "\$5,014,29"   "\$5,014,29"      "\$1,015,171"   "\$5,014,29"   "\$5,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015,171"   "\$1,014,29"   "\$1,014,29"      "\$1,015				İ	]
"\$203076" "521834" "5239198"   "\$203076" "52731940" "5273958"   "3302850" "5371404" "5388869"   "3663106"), PN.) 5617545, ORPN. (("5082615"   "6663106"), PN.) 5617545, ORPN. (("5082615"   "526306"   "5275546"   "53181599"   "3388869"   "5275546"   "53181599"   "3388869"   "5275546"   "53181599"   "3388869"   "5289714"   "5508898", PN.) (("6071755"   "6389714"   "5508898", PN.) (("6071755"   "649471" "6238952" "628942" "6163069"   "("6071755" "6247229" "6289621") (("6071755"   "6215179") and (bump ball))) (("3781596"   "3517475"   "5307849"   "530849"   "3513190"   "5512429"   "5554867"   "556550"   "5986621", PN.)   3781596.URPN. (("5298460"   "5623122"   "5906676"   "5936621", PN.)   5373190"   "5552400"   "5544860"   "5623122"   "5906676"   "5936603"), PN.) 5656550. URPN.)) not (((("6084310" "6163069" "6198171" "6238952"   "6151779") \$450282. URPN. ((#608410 "623822"   "6168410" "6163069" "6198171" "6238952"   "6215179") \$450282. URPN. (478400 "10 URPN.)   ball)) and ((sealing ad) (restin material)) encapsulant encapsulanting encapsulated)   "61684310" "6163069" "6198171" "6238952"   "6215179") \$450282. URPN. (47413465"   "4915607"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218234"   "3239198"   "5203076"   "5218249"   "5518222"   "666550"   "5382460"   "5383669"   "1083069"   "6215179") and (bump ball))) (("3781996"   "6215179") and (bump ball))) (("3781996"   "5373190"   "5524429"   "5504807"   "55	l i				<u> </u>
"5248710" "5273038" "5292688"   "5302650" "5371040" "5385659"   "540752" "5405283"   523006"   "5663106"), PN.) 5617545, JRPN. (("5082615"   "203076"   5218234"   "5244838"   "5275546"   5381599"   "538569"   "5450283"   "5512232"   "5570272"   "5589714"   5609988"   PN.) (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "("6071755" "6247229" "6208021") ("6084310" "6163069"   "("6071755" "6247229" "6208021") ("6084310" "6163069"   "("6071755" "6247229" "6208021") ("67781596"   "6215179") and (bump ball))) (("7781596"   "531444"   5669200"   "5849608"), PN.) 3731596 (JRPN.) ("5288600"   "5523122"   "5565550"   "5386212"   "5893724"   "5900676"   "5930620"), PN.) 5656550 (JRPN.)) not (((((semiconductor noarl (device package packagingl)) and ((leadframe (lead adj frame)) with (chip die) with (bump ball))) and ((sealing adj (rest material)) encapsulant encapsulating encapsulated)) not ((("6071755" "6247229" "6230021") ("6084310" "6163069" "6198171" "6238952"   "6215179") 545028. URNN. 5444501 (JRPN.)   555023. URNN. ("4143456"   "4915607"   "5019673"   "5120678"   "518068"   "5203076"   "5120678"   "518068"   "5203076"   "5218234"   "3238198"   "5203076"   "5218234"   "3238198"   "5203076"   "5218234"   "3238198"   "5203076"   "5218234"   "3238198"   "5203076"   "5218234"   "3238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218234"   "5238198"   "5203076"   "5218237"   "5570272"   "5381190"   "5581448"   "5689869"   "5373190"   "5580422"   "5580621"   ("6084310" "6163069" "6189171" "6239952"   "6215179") and (bump ball))) not (("6071755"   "6215179") and (bump ball))) ("3781596"   "5373190"   "5580421"   "5590607", PN.) ("8781596"   "5373190"   "5580421"   "5590808", PN.) ("8781596"   "5373190"   "5580421"   "5590808", PN.) ("8781596"   "5373190"   "5580421"   "5590808"   "5373190"	!		· · · · · · · · · · · · · · · · · · ·	İ	!
"5302850" "5371404" ("55858689"   "85420752"   "5450283"   "5623006"   "8663106"), PN.) 5817545, DR.N. (("5082615"   "52030376"   "5218234"   "5248383"   "5275546"   "5381599"   "5385869"   "5859714"   "5602831"   "570272"   "5589714"   "56028989"), N.) (("6071755"   "6247229"   "6238928"   "61385869"   "6138171" "6238928"   "6215179")) not	į				
"5420752"   "5450282"   "562306"   "5663166", N.N.) 5817545.URN. ("5028615"   "5203076"   "5218234"   "5244438"   "5275546"   "5381599"   "5385869"   "4560283"   "5512232"   "5570272"   "5599714"   "5609989"   N.N.) (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "("6071755" "6247229" "6208021") ("6084310" "6163069"   "("6084310" "6163069" "619317" "6238952"   "6215179") and (bump ball))) (("3781596"   "5373190"   "5524289"   "5534829"   "5373190"   "5224289"   "5364829"   "5373190"   "522429"   "5534829"   "5373190"   "522429"   "5534829"   "5373190"   "526429"   "5534829"   "5396267"   "N.)   "5656550" "5386212"   "5993724"   "8566550 URPN.)) not ((((((semiconductor nearl (device package package package package package)).N.) 5656550 URPN.)) not ((((((semiconductor nearl (device package package))) and ((see aling ad) (rest material)) encapsulant encapsulating encapsulated) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952"   "6215179") 5450283.URPN. 544031.URPN.   5450283.URPN. ("4143455"   "491560"   "5203076"   "5126678"   "5160656"   "5203076"   "5212324"   "53080869"   "5308080"   "5308			· · · · · · · · · · · · · · · · · · ·		!
"5663106", PN.) 5817545,URPN. (("5082615"   "5203076"   "5218234"   "5244838"   "5273546"   "5381599"   "5385869"   "5450283"   "5510232"   "5570272"   "5589714"   "5609889", PN.) ((("6071755"   "6247229"   "6209021")   ("6084310"   "6163069"   "6198171"   "6239952"   "6215179")   not    (("6071575"   "6247222"   "6208021")   (("6084310"   6163069"   6198171"   "6238952"   (("6084310"   6163069"   6198171"   "6238952"   (("6084310"   302849"   "3509429"   "3517475"   "3502849"   "3509429"   "5157475"   "3502849"   "3509429"   "3517475"   "3502849"   "3509429"   "5157475"   "3502849"   "3509429"   "3517475"   "3507849"   "35174190"   "3517475"   "3502849"   "3509429"   "3517475"   "3508490"   "554960"   "554960"   "554960"   "554960"   "554960"   "554960"   "554960"   "554960"   "554960"   "554960"   "554960"   "559123"   "36565510"   "35656212"   "3593724"   "35090676"   "35956212"   "3593724"   "35090676"   "3593603", PN.)   3781956.URPN.))   not (((((semiconductor near1 (device packaging))) and (((lead adj frame)) with (chip die) with (bump ball)) and ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland ((sealing adj (resta material)) encapsuland (sealing adj (resta material)) encapsuland (sealing adj (resta material)) encapsuland (sealing adj (resta material)) encapsuland (sealing ad					i
"5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "538669"   "5450283"   "551232"   "5570272"   "5589714"   "56098310"   "6510238"   "5570272"   "6247229"   "6208021"   ("6084310"   "6163069"   "6198171"   "623952"   "6215179"  ) not			, , , , , , , , , , , , , , , , , , , ,	İ	
"5275546"   "5381599"   "5385669"   "5450283"   "5510232"   "557072"   "5589714"   "5609889").N.) (("6071755"   "6247229"   "6208021")   ("6084310" "6163069"   "6198171" "6238952" "6215179")) not   (("6071755" "6247229" "6208021")   (("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball))) ("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5548687"   "5581444"   "5659200"   "5449608").N.)   3781596.(BRN. (("5989460")   "5523123"   "5580676"   "59565212"   "5993724"   "5900676"   "59565212"   "5993724"   "5900676"   "5930603".N.)   5655550.URPN.))   not (((((semiconductor nearl (device   package packaging)) and ((lead frame (lead   adj frame)) with (chip diel with (bump   ball))) and ((seading adj (rest material))   encapsulant encapsulating encapsulated)   not (("6084310" "6163069" "619817!" "6238952"   "6215179")   5450283.URPN. 5444301.URPN.   5450283.URPN. (("4143456"   "4915607"   "5019673"   "512678"   "5160676"   "5203076"   "5218234"   "52339198"   "5248710"   "5273938"   "5229688"   "5203076"   "5218234"   "5238968"   "5203076"   "5218234"   "5238968"   "5203076"   "5218234"   "5238968"   "546076"   "5218234"   "52389689"   "546076"   "5218234"   "5389869"   "546076"   "5218234"   "5288869"   "546076"   "5218234"   "5288869"   "546076"   "5218234"   "5288869"   "546083"   "5450838"   "629200"   " "5589714"   "5609889"   N.). ((("6071755"   "6247229" "6208021")   (("6071757"   "6239952" "6215179")   not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6239952" "6215179")   not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6239952" "6215179")   not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6239952" "6215179")   not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6239952" "6215179")   not (("6071755"   "6265500" "55865212"   "58656500.URN.))   and (conductive adj (adhosive material)   encopy))) "106 "107 "107 "107 "107 "107 "107 "107 "107	!			!	į
"55870283"   "5512232"   "5570272"   "558714"   "5509889").N.) (("6071755"   "6198171" "6238952" "6215179") not    (("6084310" "6163069" "6198171" "6238952"   "6198171" "6238952" "6215179") not    (("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "53024849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").N.) 3781596.URPN. ("5298460"   "5623123"   "5900676"   "5930603").RN.) 5656550.URPN.)) not ((("(6084301040ctor nearl (device package packaging)) and ((leadframc (lead adj frame)) with (chip die) with (bump ball))) and ((sealing adj (resin material)) encapsulate encapsulating encapsulated)) not (("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952"   "6215179")) \$450283.URPN. 5444301.URPN.   \$450283.URPN. ("4143456"   "4915607"   "5019673"   "5120678"   "5160956"   "5203076"   "5218234"   "5239196"   "5430752"   "3450283"   "5239196"   "5430752"   "3450283"   "5239196"   "5589714"   "5503076"   "5218234"   "5203006"   "5218248"   "5273988"   "52739869"   "5275546"   "5318234"   "5283869"   "5275546"   "5318299"   "538869"   "5275546"   "5318299"   "538869"   "5275546"   "5318299"   "538869"   "5460283"   "5512222"   "5070272"   "6287229" "6208021") ("6084310" "6163069"   "6198171" "6238952" " "61380952"   "6287229" "6208021") ("6084310" "6163069"   "6198171" "6238952" " "618717" "6238952"   "6287229" "6208021") ("6084310" "6163069"   "6198171" "6238952" " "5389724"   "5590666"   "5316230"   "5309429"   "559144"   "5629240"   "6208021") ("781596"   "6287229" "6208021") ("6084310"   \$163069"   "6198171" "6238952" " "5399829"   "6287549"   "5396037", N.) ("656550.URPN.))   and (conductive adj (adhestwe material epoxy)))   and (conductive adj (adhestwe material epoxy))   "16" and (lead near exposed)			The state of the s		ļ
"5589714" ["5609889"] N.) (("6071755"   "6247229" "6208021") (("601755"   "6198171" "6238952" "6215179")) not (("601755"   (("601755" "6247229" "6208021") (("601755"   (("601755"   6247229" "6208021") (("601755"   "5157475"   "5302849"   "5309429"   "5373190"   "5514249"   "55584887"   "581444"   "5659200"   "5849608"), PN.) 3781596.0RPN. (("5298460"   "5623123"   "590676"   "5903603"), PN.) 5656550.URPN.)) not (((((semiconductor nearl (device packaging)) and ((leadframc (lead adj frame)) with (chip die) with (bump ball))) and (sealing adj (resin material)) encapsulant encapsulating encapsulated)) not (("6071755" (6247229" "6208021") ("6084310" "6163069" "6198171" "6238952"   "5203076"   "5218234"   "5208021") ("6084310" "6163069" "6198171" "6238952"   "5203076"   "5218234"   "5208021") ("5218739"   "5218739"			·		į !
"6194717" "6238952" "6215179") not (("6084310" "6163069" "619171" "6238952" "515179") and (bump ball))) (("3781596"   "5157475"   "5302849"   "530486"   "9171" "6238952"   "5157475"   "5302849"   "53048608"   PM.)   "5581444"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "5581449"   "558149608"   PM.)   3781596     "8582612"   "8593724"   "59665550"   "8582612"   "8593724"   "590676"   "5530603"   PN.)   5656550   URPN.))   not ((((semiconductor nearl (device package packaging)) and ((leadframc (lead ad) frame)) with (chip die) with (bump ball)) and (sealing ad) (resin material))   encapsulant encapsulant and encapsulated)   not (("6071755" 62247229" 6208021")   "6084310" (6163069" 6198171" 86238952"   "6215179")   5450283   URPN. ("4143456"   "4915607"   "5019673"   "5120678"   "5160056"   "5203076"   "5218234"   "5224688"   "5203067"   "5218234"   "5224688"   "5248710"   "5218234"   "5248886"   "5203066"   "5263106"   "5175427"   "5450283"   "5623006"   "5263106"   "5175424"   "5244838"   "5225546"   "5523076"   "518234"   "5244838"   "5200676"   "5183424"   "5244838"   "5275546"   "5381599"   "5381			· · · · · · · · · · · · · · · · · · ·		
"6198171" "6238952" "6215179") not (("6071755" "6247229" "6208021") (("608310" "6163069" "6198171" "6238952" "5157475" "302849"   "5309429"   "5157475"   "5302849"   "5309429"   "5157475"   "5302849"   "5309429"   "517475"   "5302849"   "5508487"   "581444"   "5659200"   "5849608" PN.) 3781596 UPFN (("5298460" [ "5623123"   "5666550"   "5886212"   "5893724"   "5900676"   "930603", PN.) 565550.URPN.)) not (((((semiconductor near1 (device package packaging)) and ((leadframe (lead adj frame)) with (chip die) with (bump ball)) and ((sealing adj (resin material)) encapsulant encapsulating encapsulated)) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "619817" "6238952" "6215179")) 5450283.URPN 5444301.URPN. 5450283.URPN. (("4143456"   "4915807"   "5203076"   "5218234"   "5239198"   "5248710"   "5273938"   "5292688"   "5302850"   "537140"   "5388569"   "5460283"   "551404"   "5388569"   "525546"   "5818234"   "5239889"   "5263106", PN.) 5817545.URPN. (("5082615" ) "5203076"   "52182234"   "524838"   "5259374"   "5603889", PN.) ((("6071758"   "6247229" "6208021") ("6084310" "6163069"   "5589714"   "5603889", PN.) ((("6071758"   "6247229" "6208021") ("6084310" "6163069"   "517475"   "53028409"   "53009429"   "5373190"   "5514242"   "5589889"   "5589144"   "5693000"   "5818217"   "6238952"   (("6084310" "6163069" 6198171" "6238952"   (("6084310" "6163069" 6198171" "6238952"   ("6051579") and (bump ball1))) (("3781596"   "5589016"   "53028409"   "5809429"   "5589016"   "58966212"   "5896821"   "5900666"   "593003", PN.) (5665550.URPN.)) and (conductive adj (adhesive material) popxy)) "16" and (lead near2 exposed)  USPAT: 2002/03/27 10:45					
(("6084310" "6163069" "6198171" "6238952" "6215179") and (bump ball))) (("318156"   "5157475"   "5302849"   "5309429"   "51574190"   "5554887"   "5581444"   "5659200"   "5849608"), PN.) 3781596.URPN. (("5298460"   "5623123"   "5656550"   "5986612"   "5893724"   "5900676"   "5930603"), PN.) 5656555.URPN.)) not (((((semiconductor nearl (device package packaging)) and ((leadframc (lead ad) frame)) with (chip die) with (bump ball))) and ((sealing ad) (resin material)) encapsulant encapsulating encapsulated)) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. ("4143456"   "4915607"   "5019673"   "5120678"   "5169056"   "5203076"   "5218234"   "5292688"   "5203076"   "5218234"   "5292688"   "5402050"   "5371404"   "5388869"   "54620752"   "5450283"   "5623006"   "55663106"),PN.) 5817945.URPN. (("5082615") "5263106"),PN.) 5817945.URPN. (("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179") not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952" "6215179") and (bump ball))) (("3781596"   "53775464 (URPN. (("5298460"),PN.) 3781596"   "53781444"   "5609889"),PN.) (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179") not (("6071755" 6247229" "6208021") ("6084310" "5163069"   "5378190"   "5586212"   "5893724"   "5890676"   "5806212"   "5893724"   "5890676"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5806212"   "5893724"   "589076"   "5893724"   "5893724"   "589076"   "5893724"   "5893724"   "589076"   "5896212"   "5893724"   "589076"   "5893724"   "5893724"   "589076"   "589076"   "58					<u> </u>
"6215179") and (bump ball))) (("3781596") "5157475"   "5302499"   "550429") "5373190"   "5521429"   "5554867"   "55814444"   "569200"   "5623123"   "55816444"   "569200"   "5623123"   "5656550"   "5856212"   "5893724"   "5900676"   "5930637", PN.) 5665550 JRPN.)) not ((((semiconductor nearl (device package packaging)) and ((leadframc (lead adj frame)) with (chip die) with (bump ball)) and ((sealing adj (resin material)) encapsulant encapsulating encapsulated)) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179") \$450283 JUREN \$444301 LUREN \$5450283 LUREN (("4143456")   "4915607"   "5019673"   "5106768"   "5169056"   "5203076"   "5218234"   "5233198"   "5248710"   "5273388"   "5922688"   "5302850"   "5371404"   "5388869"   "5463050", PN.) \$157545 LURN. (("5082615"   "5563106"), PN.) \$157545 LURN. (("5082615"   "526303076"   "5218234"   "5244838"   "5275546"   "5381599"   "3588869"   "5450283"   "512232"   "5570272"   "5589714"   "5508899"), PN.) (("6071755"   "629171"   "6238952" "6215179")) not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" ("6238952" "6215179")) not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" ("6308952" "6215179")) not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" ("630852" "6215179")) not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" ("6238952" "6215179")) not (("6071755"   "6247229" "5308021") ("6084310" "6163069"   "6198171" ("630859" "6198171" "6238952"   "6215179") and (bump bail)))) (("3781596"   "5581444"   "5569200"   "584860m"),PN.) 3781596 (LURN). (("5098460"),PN.)) and (conductive adj (adhesive material epoxy)) and (conductive adj (adhesive material epoxy)) band (conductive adj (adhesive material epoxy))  "55906/6"   "5390631",PN.) 5665550 (LURN).)) and (conductive adj (adhesive material epoxy))  "57906/6"   "5990603",PN.) 5665550 (LURN).) and (conductive adj (adhesive material epoxy))	i		(("6071755" "6247229" "6208021")	!	
"5157475"   "5302849"   "5303429"   "5373190"   "5551429"   "5554887"   "5581444"   "5659200"   "5849608") PN.) 3781596 URPN. ("S299460"   "562323"   "5656550"   "58856212"   "5893724"   "5900676"   "5939603") PN.) 5656550 URPN.)) not (((((semiconductor nearl (device package packaging)) and ((leadframe (lead add) frame)) with (chip die) with (bump ball))) and ((sealing ad) (resin material)) encapsulant encapsulating encapsulated) not (("6071755" "6247229" "6208021") ("6084310" "6163069" 6198171" "6238952"   "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. ("4143456"   "4915607"   "5019673"   "5212834"   "5239198"   "5248710"   "573938"   "5239198"   "5248710"   "573938"   "5232688"   "5302850"   "5371404"   "538869"   "54207522"   "5450283"   "5623006"   "5563166").PN.) 5817945.URPN. ("5082615"   "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "538869"   "5450283"   "5371404"   "5244838"   "5275546"   "5381599"   "538869"   "5450283"   "5512322"   "5570272"   "588714"   "5689899 , PN.) (("6071755"   "6247229" (%208021") ("6084310" "6163069"   "6188171" "6238952" ("6218179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069"   "6215179") and (bump ball))) (("3781596"   "55373190"   "552429"   "530429"   "533123"   "55373190"   "552429"   "530849"   "330849"   "55373190"   "552429"   "55568550.URPN.)) and (conductive adj (adhesive material popxy)))   "116" and (lead near2 exposed)			(("6084310" "6163069" "6198171" "6238952"		
"5373190"   "5521429"   "5548608")			"6215179") and (bump ball)))) (("3781596"		
"5581444"   "5659200"   "5849608") PN.)  3781560 LURPN. (""5298460"   "562123"   "5656550"   "5956212"   "5893724"   "5900676"   "5930603") PN.) 5656550.URPN.)) not (((((semiconductor near1 (device package packaging)) and ((leadframe (lead adj frame)) with (chip die) with (bump ball))) and ((sealing adj (resin material)) encapsulant encapsulating encapsulated)) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. (("4143456"   "4915607"   "5019673"   "5120678"   "5169056"   "5203076"   "5218234"   "5239198"   "5248710"   "5273938"   "5292688"   "5302850"   "5371404"   "588866"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "524838"   "5203076"   "5218234"   "52483669"   "6247229" "6208021") ("6084310" "6163069"   "619171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") ("6071755"   "6215179") and (bump ball)))) (("3781596"   "5373190"   "55214229"   "550489"   "5373190"   "5521429"   "550489"   "5373190"   "5521429"   "554887"   "5586550"   "585212"   "5893724"   "55865650"   "5856212"   "5893724"   "55866550"   "5856212"   "5893063"), PN.) 3781596.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45	i		"5157475"   "5302849"   "5309429"		1
3781596.URPN. (("5298460"   "5623123"   "5565650"   "5586212"   "5993724"   "5900676"   "5930603").PN.) 5656550.URPN.)) not (((((semiconductor near1 (device package packaging)) and ((leadframe (lead ad) frame)) with (chip die) with (bump ball)) and ((sealing ad) (resin material)) encapsulant encapsulating encapsulated)) not (("6071575" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952"   "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5450283.URPN. 5273938"   "5239198"   "5248710"   "5218234"   "5248689"   "5240752"   "5450283"   "5623006"   "5663106").PN.) 5817545.URPN. (("5082615"   "5203076"   "5218234"   "524838"   "5275546"   "5381599"   "538869"   "52420752"   "5450283"   "5524388"   "5275546"   "5381599"   "558869"   "5589714"   "5609889").PN.) (("6071755"   "6247229" "6208021") (("6084310" "6163069"   "6198171" "6238952"   "6198171" "6238952"   "6198171" "6238952"   "6198171" "6238952"   "6198171" "6238952"   "557777   "5502849"   "5309429"   "53733190"   "55214229"   "5808249"   "5808229"   "557777   "5808491"   "5808229"   "557777   "5808491"   "5808229"   "557777   "5808712"   "5808729"   "5818444"   "5609889",PN.) ("5082123"   "5623123"   "556550"   "5856550"   "5865512"   "5893724"   "5900676"   "5930603",PN.) 565550.URPN.)) and (conductive adj (adhesive material copoxy))) "16" and (lead near2 exposed) USPAT; 2002/03/27 10:45				!	
"5565550"   "5856212"   "5893724"     "5900676"   "5930603").PN.) 5655550.URPN.))   not (((((semiconductor nearl (device packaging)) and ((leadframe (lead ad) frame)) with (chip die) with (bump ball))) and ((sealing ad) (resin material))     encapsulant encapsulating encapsulated))     not ((("6071755" "6247229" "6208021") ("6081310" "6163069" "6198171" "6238952"     "6215179")) 5450283.URPN. 5444301.URPN.     5450233.URPN. ("4143456"   "4915607"       "5019673"   "5120578"   "5160956"       "5203076"   "5218234"   "5292688"       "5203076"   "5218234"   "5292688"       "5302850"   "5371404"   "5388869"       "5462052"   "5450283"   "5292688"       "5302850"   "5371404"   "5388869"       "5462033"   "5512232"   "5502872"       "5463106").PN.) 5817545.URPN. (("5082615"       "5203076"   "5218234"   "5248388"       "5275546"   "53181599"   "5388669"       "45450283"   "5512232"   "5570272"       "5589714"   "5609889").PN.) (("6071755"       "6247229" "6208021") (("6084310" "6163069"       "6198171" "6238952" "6215179")) not (("6071755"       "6247229" "6208021") ("6084310" "6163069"       "6198171" "6238952" "6215179")) not (("6071755"       "6215179") and (bump ball)))) (("3781596"       "55174751"   "5302849"   "5309429"       "55174751"   "5302849"   "5309429"       "55174751"   "5302849"   "584960", PN.) (3781596"       "5517475"   "5802849"   "584960", PN.) (3781596"       "5518444"   "5659200"   "884960", PN.) (3781596"       "5518444"   "5659200"   "884960", PN.) (3781596"       "5590676"   "8856212"   "8893724"       "5900676"   "8950212"   "8893724"       "5900676"   "8950212"   "8893724"       "5900676"   "8950212"   "8893724"       "5900676"   "8950212"   "8893091, PN.) (2002/03/27 10:45       "5900676"   "8950212"   "8895050, PN.) (2002/03/27 10:45       "5900676"   "8950212"   "8895050, PN.) (2002/03/27 10:45       "5900676"   "8950212"   "8893090, PN.) (2002/03/27 10:45       "5900676"   "8950212"   "8893090, PN.) (2002/03/27 10:45	i			1	
"5900676"   "5930603").PN.) 5656550.URPN.)) not ((((((semiconductor nearl (device package packaging)) and ((leadframe (lead adj frame)) with (chip die) with (bump ball))) and ((sealing adj (resin material)) encapsulant encapsulating encapsulatedd)) not ((("601755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" ("6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. (("4143456"   "4915607"   "5019673"   "5128234"   "52395889   "5248710"   "5273938"   "5292688"   "5248710"   "5273938"   "5292688"   "5420752"   "9450283"   "5623006"   "5643166").PN.) 5817545.URPN. (("5082615" )   "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "3588869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("601755"   "6247229" (6208021") ("6084310" "6163069"   "6188171" (6238952" 6215179")) not ((("6071755"   6247229" (6208021")) (("6084310"   6163069"   6198171" (6238952"   "55179")) not (("6071755"   6263229"   6215179")) and (bump ball))) (("3781596"   "55373190"   "5521429"   "530849"   "5063123"   "55575487"   "5589714"   "569809".PN.) (("808410"   "6183069"   "5577556"   "5802849"   "5008429"   "5577556"   "5802849"   "55873190"   "5521429"   "5802849"   "5906360".PN.) (("8071755"   "628550")   "585550"   "585550"   "585550"   "5855212"   "5585487"   "55900676"   "5898608").PN.) (("8071755"   "5757444"   "5698008").PN.) (("8071755"   "585550"   "5855212"   "58551487"   "55900676"   "5893603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT: 2002/03/27 10:45					
not (((((semiconductor nearl (device package packaging)) and ((leadframe (lead adj frame)) with (chip die) with (bump ball))) and ((sealing adj (resin material)) encapsulating encapsul	i i				
package packaging) and ((leadframc (lead adj frame)) with (chip die) with (bump ball)) and ((sealing adj (resin material))	}			1	1
adj frame) with (chip die) with (bump ball)) and ((sealing adj (resin material)) encapsulant encapsulating encapsulated)) not (("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. ("41443456"   "4915607"   "5019673"   "5120678"   "5169056"   "5203076"   "5218234"   "5239198"   "52448710"   "5273938"   "5292688"   "5302850"   "5371404"   "5388869"   "5420752"   "5450283"   "5523006"   "563106").PN.) 5817545.URPN. (("5082615"   "5203076"   "5218234"   "5244838"   "5223076"   "5518234"   "5244838"   "5275546"   "5381599"   "5388869"   "5450283"   "5512232"   "5570272"   "5450283"   "5512232"   "5570272"   "589714"   "5609889",PN.) (("6071755"   "6247229" "6208021") (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952"   "6215179")) not (("6071755"   "6247229" "6208021") (("6084310" "6163069"   "5157475"   "5302849"   "5309429"   "5157475"   "5302849"   "5309429"   "5157475"   "5302849"   "5309429"   "5157475"   "5806650"   "580620"   "5623123"   "5573190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed) USPAT; USPAGNDRY	i i				
ball)) and ((sealing adj (resin material)) encapsulant encapsulating encapsulated)) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. 5("4143456"   "4915607"   "5019673"   "5120678"   "5169056"   "5203076"   "5218234"   "5239198"   "5248710"   "5273938"   "5292688"   "5302850"   "5371404"   "5385869"   "5420752"   "5450283"   "6223006"   "5563106").PN.) 5817545.URPN. (("5082615"   "5203076"   "5218234"   "524838"   "5275546"   "53181599"   "53885869"   "547528"   "55128224"   "524838"   "5275546"   "5318224"   "5204722"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6188171" "6238952" "6218179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069"   "6189171" "6238952" "6218179")) not (("6071755" "6247229" "6208021") (("3781596"   "5157475"   "55218224"   "5504887"   "5333190"   "5521822"   "55893724"   "5581444"   "5569200"   "8849608".PN.) 3781596.URPN. (("5298460"   "5623123"   "5506550"   "5856212"   "5893724"   "59006/6"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed) USPAT; USPAT; USPAT; EPO; JPO; DEPURNT				i	
encapsulant encapsulating encapsulated) not ((("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. (("4143456"   "4915607"   "5019673"   "5120678"   "5169056"   "5203076"   "5218234"   "5239198"   "5248710"   "5273938"   "5292688"   "5302850"   "53731404"   "5385869"   "5420752"   "5450283"   "5623006"   "5663106").PN.) 5817545.URPN. (("5082615" ) "5203076"   "5381599"   "5388699"   "5203076"   "5381599"   "5388699"   "5203076"   "5381599"   "5388699"   "5450283"   "5512232"   "5570272"   "5589714"   "5509889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755"   "6247229"   "6208021") (("6084310" "6163069"   "6198171"   "6238952"   "6215179") and (bump ball))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "55524429"   "5554887"   "5581444"   "5559200"   "5849608".PN.) 3781596.URPN. (("5089460"   "5930613").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "16" and (lead near2 exposed) USPAT; US-PCPUB; EPO; JPO; DEPURNT					
not ((("6071755" "6247229" "6238021")				i	
("6084310" "6163069" "6198171" "6238952"   "6215179")) 5450283.URPN. 5444301.URPN.   5450283.URPN. ("4143456"   "4915607"     "5019673"   "5120678"   "5169056"     "5203076"   "5218234"   "5329198"     "5248710"   "5273938"   "5292688"     "5302850"   "5371404"   "5385869"     "5402752"   "5450283"   "5623006"     "5663106").PN.) 5817545.URPN. (("5082615"     "5203076"   "5218234"   "524838"     "5275546"   "5381599"   "5385869"     "5450283"   "5512232"   "5570272"     "5589714"   "5609889").PN.) (("6071755"     "6247229" "6208021") ("6084310" "6163069"     "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069"     "6198171" "6238952" "6215179")) not (("6071755"     "6215179") and (bump ball)))) (("3781596"     "5157475"   "5302849"   "5309429"     "5373190"   "5521429"   "5554887"     "5581444"   "5659200"   "5849608").PN.) (3781596"     "515745"   "58056550"   "58856212"   "5893724"     "59006/6"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive matorial epoxy)))   "116" and (lead near2 exposed)   USPAT; 2002/03/27 10:45     USPAT; 2002/03/27 10:45					
"6215179") 5450283.URPN. 5444301.URPN. 5450283.URPN. (("4143456"   "4915607"   "5019673"   "5120678"   "5169056"   "5203076"   "5218234"   "5292688"   "5228710"   "5273938"   "5292688"   "5302850"   "5371404"   "5385869"   "5420752"   "5450283"   "5623006"   "5663106").PN.) 5817545.URPN. (("5082615" ) "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069"   "(6084310" "6163069" "6198171" "6238952"   "(6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5849608").PN.) 3781596.URPN. (("5298460"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed) USPAT; 2002/03/27 10:45				ì	i !
5450283.URPN. (("4143456"   "4915607"					
"5203076"   "5218234"   "5239198"   "5248710"   "5273938"   "5292688"   "5302850"   "5371404"   "5385869"   "5420752"   "5450283"   "5623006"   "5663106").PN.) 5817545.URPN. (("5082615"   "52203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed)  USPAT: 2002/03/27 10:45	1			İ	
"5248710"   "5273938"   "5292688"   "5302850"   "5371404"   "5385869"   "5420752"   "5450283"   "5263006"   "5663106").PN.) 5817545.URPN. (("5082615"   "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179") not (("6071755"   "6247229" "6208021") (("6084310" "6163069"   "6198171" "6238952" "6218179") not (("6071755"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5157475"   "5302849"   "55309429"   "5573190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5606550"   "58930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed) USPAT; 2002/03/27 10:45	1		"5019673"   "5120678"   "5169056"		1
"5302850"   "5371404"   "5385869"   "5420752"   "5450283"   "5623006"   "5663106").PN.) 5817545.URPM. (("5082615"   "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) (("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755"   (("6071755" "6247229" "6208021") (("6084310" "6163069"   "("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed) USPAT; 2002/03/27 10:45   DEPMENT	1		"5203076"   "5218234"   "5239198"		1
"5420752"   "5450283"   "5623006"   "5663106").PN.) 5817545.URPN. (("5082615" ) "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5656550"   "5896212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed)  USPAT; US-PGPUB; EPO; JPO; DEPURNIT	· 1			1	· I
"5663106").PN.) 5817545.URPN. (("5082615") "5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755"   "6198171" "6238952" "6208021") (("6084310" "6163069"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5565550"   "5856212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed)  USPAT; US-PGPUB; EPO; JPO; DEPURNITY	i			İ	
"5203076"   "5218234"   "5244838"   "5275546"   "5381599"   "5385869"   "5450283"   "5512322"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021")   (("6071755" "6247229" "6208021")   (("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball)))) (("3781596"     "5157475"   "5302849"   "5309429"     "5373190"   "5521429"   "5554887"     "5581444"   "5659200"   "5849608").PN.)   3781596.URPN. (("5298460"   "5623123"     "5656550"   "5856212"   "5893724"     "5900676"   "5930603").PN.) 5656550.URPN.))   and (conductive adj (adhesive material epoxy)))   "116" and (lead near2 exposed)   USPAT; US-PGPUB; EPO; JPO; OFPMENT					' I
"5275546"   "5381599"   "5385869"   "5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) (("6071755" "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not (("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952" "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5656550"   "5856212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45 US-PGPUB; EPO; JPO; DEPMEENT	!				1
"5450283"   "5512232"   "5570272"   "5589714"   "5609889").PN.) ((("6071755"   "6247229" "6208021") ("6084310" "6163069"   "6198171" "6238952" "6215179")) not (("6071755"   (("6071755" "6247229" "6208021")   (("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball)))) (("3781596"   "5157475"   "5302849"   "5309429"   "5573190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.)   3781596.URPN. (("5298460"   "5623123"     "5656550"   "5856212"   "5893724"     "5900676"   "5930603").PN.) 5656550.URPN.))   and (conductive adj (adhesive material epoxy))) "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45   USPAT; 2002/03/27 10:45   USPENDENT	;				Ţ. I.
"5589714"   "5609889").PN.) ((("6071755"     "6247229" "6208021") ("6084310" "6163069"     "6198171" "6238952" "6215179")) not     (("6071755" 6247229" "6208021")     (("6084310" "6163069" "6198171" "6238952"         "6215179") and (bump ball)))) (("3781596"           "5157475"   "5302849"   "5309429"           "5373190"   "5521429"   "5554887"           "5581444"   "5659200"   "5849608").PN.)         3781596.URPN. (("5298460"   "5623123"           "5665550"   "5856212"   "5893724"           "5900676"   "5930603").PN.) 5656550.URPN.))         and (conductive adj (adhesive material epoxy)))         "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45	!				
"6247229" "6208021") ("6084310" "6163069"  "6198171" "6238952" "6215179")) not  (("6071755" "6247229" "6208021")  (("6084310" "6163069" "6198171" "6238952"  "6215179") and (bump ball)))) (("3781596"    "5157475"   "5302849"   "5309429"    "5373190"   "5521429"   "5554887"    "5581444"   "5659200"   "5849608").PN.)  3781596.URPN. (("5298460"   "5623123"    "5900676"   "5930603").PN.) 5656550.URPN.))  and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45	i			1	
"6198171" "6238952" "6215179")) not   (("6071755" "6247229" "6208021")   (("6084310" "6163069" "6198171" "6238952"   "6215179") and (bump ball)))) (("3781596"     "5157475"   "5302849"   "5309429"     "5373190"   "5521429"   "5554887"     "5581444"   "5659200"   "5849608").PN.)   3781596.URPN. (("5298460"   "5623123"     "5656550"   "5856212"   "5893724"     "5900676"   "5930603").PN.) 5656550.URPN.))   and (conductive adj (adhesive material epoxy)))   - 535 "116" and (lead near2 exposed)   USPAT; 2002/03/27 10:45					1
(("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"     "6215179") and (bump ball)))) (("3781596"       "5157475"   "5302849"   "5309429"       "5373190"   "5521429"   "5554887"       "5581444"   "5659200"   "5849608").PN.)     3781596.URPN. (("5298460"   "5623123"       "5656550"   "5856212"   "5893724"       "5900676"   "5930603").PN.) 5656550.URPN.))     and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45       US-PGPUB; EPO; JPO; DEFEMENT	1			1	
(("6084310" "6163069" "6198171" "6238952"  "6215179") and (bump ball)))) (("3781596"    "5157475"   "5302849"   "5309429"    "5373190"   "5521429"   "5554887"    "5581444"   "5659200"   "5849608").PN.)  3781596.URPN. (("5298460"   "5623123"    "5656550"   "5856212"   "5893724"    "5900676"   "5930603").PN.) 5656550.URPN.))  and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45  US-PGPUB; EPO; JPO; DEPWEENT	!				
"6215179") and (bump ball)))) (("3781596"    "5157475"   "5302849"   "5309429"    "5373190"   "5521429"   "5554887"    "5581444"   "5659200"   "5849608").PN.)  3781596.URPN. (("5298460"   "5623123"    "5656550"   "5856212"   "5893724"    "5900676"   "5930603").PN.) 5656550.URPN.))  and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45    US-PGPUB; EPO; JPO; DEPWEENT	1		1 : '	1	,
"5157475"   "5302849"   "5309429"   "5373190"   "5521429"   "5554887"   "5581444"   "5659200"   "5849608").PN.) 3781596.URPN. (("5298460"   "5623123"   "5900676"   "58936212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT; US-PGPUB; EPO; JPO; DEFEMENT	!		• •	İ	1
"5373190"   "5521429"   "5554887"				İ	<u>:</u> !
3781596.URPN. (("5298460"   "5623123"   "5656550"   "5856212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed) USPAT; 2002/03/27 10:45   US-PGPUB;   EPO; JPO; DEPMENT				I	1
"5656550"   "5856212"   "5893724"   "5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)			"5581444"   "5659200"   "5849608").PN.)	i	
"5900676"   "5930603").PN.) 5656550.URPN.)) and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed)	į.		3781596.URPN. (("5298460"   "5623123"	-	!
and (conductive adj (adhesive material epoxy)))  - 535 "116" and (lead near2 exposed) USPAT; 2002/03/27 10:45 US-PGPUB; EPO; JPO; DEPWENT	:		, , , , , , , , , , , , , , , , , , , ,	İ	1
epoxy)))  - 535 "116" and (lead near2 exposed)  USPAT; 2002/03/27 10:45   US-PGPUB; EPO; JPO; DERMENT	1				!
- 535 "116" and (lead near2 exposed) USPAT; 2002/03/27 10:45 US-PGPUB; EPO; JPO; DERWENT	1		ļ .	i	
US-PGPUB; EPO; JPO;	Ι,	_		ļ	
EPO; JPO;	! -	535	"116" and (lead near2 exposed)		i i
DEBMENT	İ		:		!
	1 :		<u> </u>		i
	·		L	T DERMENT	1

! -	16 ((((semiconductor nearl (device package	USPAT;	2002/03/27 10:46
	<pre>!packaging)) and ((leadframe (lead adj</pre>	US-PGPUB;	l i
!	frame)) with (chip die) with (bump ball)))	EPO; JPO;	!
· 1	and ((sealing adj (resin material))	DERWENT	1
! i	encapsulant encapsulating encapsulated))		!
i !	not ((("6071755" "6247229" "6208021")	1	]
	("6084310" "6163069" "6198171" "6238952"	!	i I
i	"6215179")) 5450283.URPN. 5444301.URPN.		1
	5450283.URPN. (("4143456"   "4915607"		
·	"5019673"   "5120678"   "5169056"	1	
i	<sup>1</sup> "5203076"   "5218234"   "5239198"	I	!
i !	"5248710"   "5273938"   "5292688"	1	
	"5302850"   "5371404"   "5385869"		i
1	"5420752"   "5450283"   "5623006"	I.	1
;	"5663106").PN.) 5817545.URPN. (("5082615"	I	
1	"5203076"   "5218234"   "5244838"		
1	"5275546"   "5381599"   "5385869"	i I	
!	"5450283"   "5512232"   "5570272"	1	
	"5589714"   "5609889").PN.) ((("6071755"	İ	
1	"6247229" "6208021") ("6084310" "6163069"	1	]
	"6198171" "6238952" "6215179")) not	ĺ	1
. 1	(("6071755" "6247229" "6208021") (("6084310" "6163069" "6198171" "6238952"	1	!
!	"6215179") and (bump ball)))) (("3781596")	İ	i
1	"5157475"   "5302849"   "5309429"	i	
	\"5373190" \ "5521429" \ "5554887" \		i
	"5581444"   "5659200"   "5849608").PN.)		
· !	3781596.URPN. (("5298460"   "5623123"		i
	"5656550"   "5856212"   "5893724"	1	
'	"5900676"   "5930603").PN.) 5656550.URPN.))		
1	not (((((semiconductor near1 (device	1	
	package packaging)) and ((leadframe (lead		1
İ	adj frame)) with (chip die) with (bump	1	'
' '	(ball))) and ((sealing adj (resin material))		1
i	encapsulant encapsulating encapsulated))	1	·
1	not ((("6071755" "6247229" "6208021")		
	("6084310" "6163069" "6198171" "6238952"		1
	("6215179")) 5450283.URPN. 5444301.URPN.	  -	
!	5450283.URPN. (("4143456"   "4915607"		
j	"5019673"   "5120678"   "5169056"	!	i
	"5203076"   "5218234"   "5239198"		1
1	i "5248710"   "5273938"   "5292688"	i	
1	"5302850"   "5371404"   "5385869"	1	
	"5420752"   "5450283"   "5623006"		į l
1	"5663106").PN.) 5817545.URPN. (("5082615")	1	
!	"5203076"   "5218234"   "5244838"	ļ	į l
,	"5275546"   "5381599"   "5385869"	i	1
	"5450283"   "5512232"   "5570272"	I	1
	"5589714"   "5609889").PN.) ((("6071755"	i	1
	"6247229" "6208021") ("6084310" "6163069"	i	İ
i i	"6198171" "6238952" "6215179")) not	į	1
	(("6071755" "6247229" "6208021")		I a
i .	(("6084310" "6163069" "6198171" "6238952"	j	1
i l	["6215179") and (bump ball)))) (("3781596"	1	1
1	"5157475"   "5302849"   "5309429"   "5303429"	1	1
!	' "5373190"   "5521429"   "5554887"	i	1
į !	"5581444"   "5659200"   "5849608").PN.)	1	
1	3781596.URPN. (("5298460"   "5623123"	I	
	"5656550"   "5856212"   "5893724"	į	1
	"5900676"   "5930603").PN.) 5656550.URPN.))	i	<u>,                                    </u>
1	and (conductive adj (adhesive material	ı	1
	epoxy)))) and (lead near2 exposed)	· ,	

```
packaging)) and ((leadframe (lead adj
                                                                          US-PGPUB;
                       frame)) with (chip die) with (bump ball)))
                                                                          EPO; JPO;
                       and ((sealing adj (resin material))
                                                                          DERWENT
                       encapsulant encapsulating encapsulated))
not ((("6071755" "6247229" "6208021")
                       ("6084310" "6163069" "6198171" "6238952"
                       "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. (("4143456" | "4915607" |
                       "5019673" | "5120678" | "5169056"
                       "5203076" | "5218234" |
                                                 "5239198"
                       "5248710" | "5273938" | "5292688"
                       "5302850" | "5371404" | "5385869"
                       "5420752" | "5450283" | "5623006"
                       "5663106").PN.) 5817545.URPN. (("5082615" |
                       "5203076" | "5218234" | "5244838" |
                      "5275546" | "5381599" | "5385869"
                       "5450283" | "5512232" | "5570272"
                       "5589714" | "5609889").PN.) ((("6071755"
                      "6247229" "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) not
                       (("6071755" "6247229" "6208021")
                       (("6084310" "6163069" "6198171" "6238952"
                       "6215179") and (bump ball)))) (("3781596" |
                      "5157475"
                                 | "5302849" | "5309429" |
                       "5373190" | "5521429" | "5554887" |
                       "5581444" | "5659200" | "5849608").PN.)
                       3781596.URPN. (("5298460" | "5623123" |
                       "5656550" | "5856212" | "5893724" |
                       "5900676" | "5930603").PN.) 5656550.URPN.))
                       not (((((semiconductor nearl (device
                      package packaging)) and ((leadframe (lead
                       adj frame)) with (chip die) with (bump
                      ball))) and ((sealing adj (resin material))
                      encapsulant encapsulating encapsulated))
not ((("6071755" "6247229" "6208021")
                       ("6084310" "6163069" "6198171" "6238952"
                      "6215179")) 5450283.URPN. 5444301.URPN. 5450283.URPN. (("4143456" | "4915607" |
                       "5019673" | "5120678" | "5169056"
                       "5203076" |
                                   "5218234" | "5239198"
                      "5248710" | "5273938" | "5292688"
                      "5302850" | "5371404" | "5385869"
                      "5420752" | "5450283" | "5623006" |
                       "5663106").PN.) 5817545.URPN. (("5082615" |
                       "5203076" | "5218234" | "5244838"
                      "5275546" | "5381599" | "5385869"
                       "5450283" | "5512232" | "5570272"
                      "5589714" | "5609889").PN.) ((("6071755"
                      "6247229" "6208021") ("6084310" "6163069"
                      "6198171" "6238952" "6215179")) not
                       (("6071755" "6247229" "6208021")
                       (("6084310" "6163069" "6198171" "6238952"
                      "6215179") and (bump ball)))) (("3781596" \mid
                       "5157475" | "5302849" | "5309429" |
                       "5373190" | "5521429" | "5554887" |
                      "5581444" | "5659200" | "5849608").PN.)
                       3781596.URPN. (("5298460" | "5623123"
                      "5656550" | "5856212" | "5893724" |
                       "5900676" | "5930603").PN.) 5656550.URPN.))
                      and (conductive adj (adhesive material
                      epoxy)))) not (((((semiconductor nearl
                       (device package packaging)) and ((leadframe
                       (lead adj frame)) with (chip die) with
                       (bump ball))) and ((sealing adj (resin
                      material)) encapsulant encapsulating
                       encapsulated)) not ((("6071755" "6247229"
                      "6208021") ("6084310" "6163069" "6198171" "6238952" "6215179")) 5450283.URPN.
                       5444301.URPN. 5450283.URPN. (("4143456" |
                      "4915607" | "5019673" | "5120678"
                       "5169056" | "5203076" | "5218234"
Search History
                    10/'3502/30281 998:'59: 0'15 27408 710 'Palge' 592 73 938''
C:\APPS\EAST\Workspace$\%\P880frame5203850\ouldn'\m210f0$\understand \\\
"5385869" | "5420752" | "5450283"
                                               1
                     "5623006" | "5663106").PN.) 5817545.URPN.
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(((((semiconductor nearl (device package

USPAT;

2002/03/27 10:47

/ <del>_</del>		! ("5285104"   "5663593"   "6002173"     "6034423"   "6117710").PN.	USPAT	2002/03/27 10:51
! -		(flat nearl package) and (leadframe (lead adj frame))	USPAT;	2002/03/27 15:25
! <b>-</b>	8	((flat near1 package) and (leadframe (lead adj frame))) and ((test testing) with	USPAT; EPO; JPO	2002/03/28 06:55
İ	ļ	(singulation singulating singulated cutting saw))	l .	i
! -	1	"6343019"	USPAT;	2002/03/28 06:59
-	3	. "6157080"	USPAT; EPO; JPO	2002/03/28 06:59
-	ļ 1	"6258626"	USPAT; EPO; JPO	2002/03/28 07:02
	4	"6157080" "6258626"	USPAT; EPO; JPO	2002/03/28 07:02
<u> </u>	3434	substrate near3 thickness near3 mm	USPAT; EPO; JPO	2002/03/28 14:56
_	58	(substrate near3 thickness near3 mm) and (flipchip (flip adj chip))	USPAT; EPO; JPO	2002/03/28 14:56
i _	1	"6329705"	USPAT; EPO; JPO	2002/04/16 06:35
<u> </u>	25	"5570272"	USPAT;	2002/04/16 06:35
( -	8	"5750423"	USPAT; EPO; JPO	2002/04/16 06:36
-	4	"6013947"	USPAT; EPO; JPO	2002/04/16 06:37
_	37	"6329705" "5570272" "5750423" "6013947"	USPAT; EPO; JPO	2002/04/16 06:37
j _	25	("4523218"   "4987473"   "4994895"	USPAT	2002/04/16 06:40
į	1	"5197183"   "5223739"   "5252783"	ļ	i i
1		"5291059"   "5291061"   "5345106"     "52576744     "5260059"     "5520291"	İ	1
ļ	Í	' "5357674"   "5369058"   "5530281"     "5543658"   "5570272"   "5581121"	!	ļ
İ	!	"5594234"   "5644161"   "5692296"	!	[
	1	! "5736432"   "5783861"   "5866939"	į	
İ		"5905301"   "5910681"   "5932923"		
i_	1	' "6028368").PN.   "5757066".PN.	USPAT	2002/04/16 06:40
: -	1 3	6028368.URPN.	USPAT	2002/04/16 06:40
-	38	5223739.URPN.	USPAT	2002/04/16 06:46
I ~	3	6028368.URPN.	USPAT	2002/04/16 06:49
<u>.</u> -	881	(flat near package) and (leadframe (lead	USPAT;	2002/10/31 16:00
1	1	adj frame))	US-PGPUB; EPO; JPO;	
1	200	! ! //flot noon nookogo) and /loudfroms /loud	DERWENT USPAT;	2002/04/16 07:02
į -	286	((flat near package) and (leadframe (lead adj frame))) and (flipchip (flip adj chip)	US-PGPUB;	1
	į	bump ball)	EPO; JPO; DERWENT	 
-	! 285	(((flat near package) and (leadframe (lead adj frame))) and (flipchip (flip adj chip)	USPAT; US-PGPUB;	2002/04/16 07:03
1	į .	bump ball)) not ("6329705" "5570272"   "5750423" "6013947") not (("4523218"	EPO; JPO; DERWENT	İ
!	İ	"4987473"   "4994895"   "5197183"	1 =	! !
i	Į.	"5223739"   "5252783"   "5291059"	į	1
		"5291061"   "5345106"   "5357674"		į.
	1	"5369058"   "5530281"   "5543658"     "5570272"   "5581121"   "5594234"		!
1	į į	. "5570272"   "5581121"   "5594234"     "5644161"   "5692296"   "5736432"	İ	1
	1	"5783861"   "5866939"   "5905301"	I	
	!	#5010601#   #5022022#   #6020360#\ DN \	i	<u> </u>

	- ·			
- 	)	((((flat near package) and (leadframe (lead adj frame))) and (flipchip (flip adj chip) bump ball)) not ("6329705" "5570272"	USPAT;   US-PGPUB;   EPO; JPO;	2002/04/16 07:04
!	i I	"5750423" "6013947") not (("4523218"	DERWENT	İ
ļ i	! 	! "4987473"   "4994895"   "5197183"     "5223739"   "5252783"   "5291059"		
	į	"5291061"   "5345106"   "5357674"	ĺ	
i		"5369058"   "5530281"   "5543658"   "5570272"   "5581121"   "5594234"	: 	
1	ļ	"5644161"   "5692296"   "5736432"	į	<u> </u>
1	1	"5783861"   "5866939"   "5905301"     "5910681"   "5932923"   "6028368").PN.))	ĺ	
1		and (mold near cap)	USPAT;	2002/04/16 07:15
-	1	((flat near package) and (leadframe (lead   adj frame))) and (mold near cap)	US-PGPUB;	2002/04/10 07.13
	ļ i	ļ	EPO; JPO; DERWENT	
<u> </u>	162	((((flat near package) and (leadframe (lead	USPAT;	2002/04/16 07:18
İ		adj frame))) and (flipchip (flip adj chip) bump ball)) not ("6329705" "5570272"	US-PGPUB; EPO; JPO;	!
Ţ		"5750423" "6013947") not (("4523218"	DERWENT	
İ	; 	"4987473"   "4994895"   "5197183"     "5223739"   "5252783"   "5291059"	]	!
1	İ	"5291061"   "5345106"   "5357674"     "5369058"   "5530281"   "5543658"	1	i i
ļ Ī		"5570272"   "5581121"   "5594234"		!
İ	j	' "5644161"   "5692296"   "5736432"     "5783861"   "5866939"   "5905301"	!	!
1		"5910681"   "5932923"   "6028368").PN.))	l	! !
! -	2	and plastic   ((((flat near package) and (leadframe	USPAT;	2002/04/16 07:18
į		(lead adj frame))) and (flipchip (flip adj chip) bump ball)) not ("6329705" "5570272"	US-PGPUB; EPO; JPO;	
İ		"5750423" "6013947") not (("4523218"	DERWENT	
		"4987473"   "4994895"   "5197183"     "5223739"   "5252783"   "5291059"	İ	
į.	} 	"5291061"   "5345106"   "5357674"	!	<u> </u>
j		: "5369058"   "5530281"   "5543658"   ! "5570272"   "5581121"   "5594234"	1	: 
İ	İ	"5644161"   "5692296"   "5736432"     "5783861"   "5866939"   "5905301"	ļ i	: 
1	ļ	"5910681"   "5932923"   "6028368").PN.))	! 	: 
  -	79	!and plastic) and tap   (((((flat near package) and (leadframe	USPAT;	2002/04/16 07:19
1		(lead adj frame))) and (flipchip (flip adj	US-PGPUB;	
: 		chip) bump ball)) not ("6329705" "5570272" "5750423" "6013947") not (("4523218"	EPO; JPO; DERWENT	! !
i	:	"4987473"   "4994895"   "5197183"     "5223739"   "5252783"   "5291059"	İ	¦ i
	I	"5291061"   "5345106"   "5357674"		' !
1	I	"5369058"   "5530281"   "5543658"     "5570272"   "5581121"   "5594234"	ì :	· !
1	1	"5644161"   "5692296"   "5736432"   "5783861"   "5866939"   "5905301"	!	! !
	!	"5783861"   "5866939"   "5905301"    "5910681"   "5932923"   "6028368").PN.))	I I	! 
   -	122	and plastic) and tab ((((flat near package) and (leadframe (lead	USPAT;	:   2002/04/16 07:19
!	2513	adj frame))) and (flipchip (flip adj chip)	US-PGPUB;	1
i	! 	bump ball)) not ("6329705" "5570272" "5750423" "6013947") not (("4523218"	PPO; JPO; DERWENT	
1	· !	"4987473"   "4994895"   "5197183"   "5223739"   "5252783"   "5291059"	: 	i L
i	·	"5291061"   "5345106"   "5357674"		· [
	į i	"5369058"   "5530281"   "5543658"   "5570272"   "5581121"   "5594234"	· i	· Į
:	1	"5644161"   "5692296"   "5736432"	:	
	1	"5783861"   "5866939"   "5905301"   "5910681"   "5932923"   "6028368").PN.))	j	
!	i i	and tab	l -	· · · · · · · · · · · · · · · · · · ·

		Lawrence and the second	1	T 5 5 0 0 1 0 7 1
-	! 46	"5172214"	USPAT;	2002/04/16 07:37
İ			US-PGPUB; EPO; JPO;	
	i	i	DERWENT	
_	. 2	"6201294"	USPAT;	2002/04/16 07:37
1			US-PGPUB;	
!	1	I	EPO; JPO;	
1			DERWENT	
! _	6	"5969416"	USPAT;	2002/04/16 07:40
Ì	i		US-PGPUB;	'
:		İ	EPO; JPO;	
		' : <b>"</b> 6124546"	DERWENT USPAT;	12002/04/16 07:41
i	2	0124346	US-PGPUB;	2002/04/10 07.41
;	1	ı	EPO; JPO;	!
			DERWENT	1
	3	"6084310"	USPAT;	2002/04/16 07:45
	!	!	US-PGPUB;	
1			EPO; JPO;	1
ł	Í 50	"5172214" "6201294" "5969416" "6124546"	DERWENT	2002/04/16 07:46
į -	! 58	"5172214" "6201294" "5969416" "6124546"   "6084310"	USPAT; US-PGPUB;	2002/04/16 07:46
1		0004310	EPO; JPO;	
ļ	į		DERWENT	1
i -	53	("5172214" "6201294" "5969416" "6124546"	USPAT;	2002/04/16 08:28
1	İ	"6084310") not ("6329705" "5570272"	US-PGPUB;	!
İ	1 :	"5750423" "6013947") not (("4523218"	EPO; JPO;	
\ :		"4987473"   "4994895"   "5197183"     #52223330#   #5252792#   #5201050#	DERWENT	
İ	i	"5223739"   "5252783"   "5291059"     "5291061"   "5345106"   "5357674"	i	
	1	"5369058"   "5530281"   "5543658"		
į	t	"5570272"   "5581121"   "5594234"		
!	1	"5644161"   "5692296"   "5736432"		1
1	}	"5783861"   "5866939"   "5905301"		!
!		"5910681"   "5932923"   "6028368").PN.)	1	000010111000
1	1	6084310.URPN.	USPAT	2002/04/16 07:47
-		("5863805"   "5886405"   "5917241").PN.   ("3200364"   "4897708"   "4987100"	USPA'T USPAT	2002/04/16 07:49
Ì		"5034349"   "5172214"   "5206188").PN.	OSTAT	2002/01/10 0/113
: _	18	("5327009"   "5436500"   "5559305"	USPAT	2002/04/16 07:52
	ļ	"5770888"   "5780925"   "5886404"		1
;		"5942794"   "5949416"   "5963433"	I.	1
		"5969416"   "5976912"   "5977616"	1	
i		! "5999413"   "6028356"   "6043430"   ! "6054754"   "6060775"   "6107677").PN.	i	
!	7	6043430.URPN.	USPAT	2002/04/16 07:54
i -		("5363279"   "5583375"   "5744827"	USPAT	2002/04/16 07:55
		"5770888"   "5801439"   "5804874").PN.		1
-		5436500.URPN.	USPAT	2002/04/16 08:00
!		5594234.URPN.	USPAT	2002/04/16 08:02
-	25	(("5172214" "6201294" "5969416" "6124546"   "6084310") not ("6329705" "5570272"	USPAT;	2002/04/16 08:28
	!	"5750423" "6013947") not (("4523218"	US-PGPUB; EPO; JPO;	i
	į	"4987473"   "4994895"   "5197183"	DERWENT	
1	!	"5223739"   "5252783"   "5291059"	İ	1
1	!	"5291061"   "5345106"   "5357674"	•	1
1	: :	"5369058"   "5530281"   "5543658"	į	:
İ	į i	"5570272"   "5581121"   "5594234"	1	
1	1	"5644161"   "5692296"   "5736432"     "5783861"   "5866939"   "5905301"	i	
ļ	l i	"5783861"   "5866939"   "5905301"     "5910681"   "5932923"   "6028368").PN.))	!	1
:	}	and plastic		1
j -	1	6124546.pn.and "40"	USPAT;	; 2002/04/16 08:29
İ		· · · · · · · · · · · · · · · · · · ·	US-PGPUB;	!
İ			EPO; JPO;	į
•		C10454C 112 CH	DERWENT	1 2002/04/16 22 22
-	2	6124546.pn.and "16"	USPAT;	2002/04/16 08:30
:	: !		US-PGPUB; EPO; JPO;	I
;	: :		DERWENT	i
	i			